

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Butte County Department of Public Works

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mud Creek	Right	6.80	04/25/2016 04/25/2016	Keith Millard

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_2				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2013.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_10				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Mud Creek	Right	6.80	04/25/2016 04/25/2016	Keith Millard

LM Start	2.06	Rating **	M	Issue No.	41
LM End	2.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.749149 °	39.749149 °
				-121.918510 °	-121.918510 °
DWR ID	DWR_NA0003_01_s _ 2016_41				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Homeowner is dragging soil and debris across levee and dumping on waterside terrace.					

LM Start	2.06	Rating **	M	Issue No.	41 (cont)
LM End	2.06	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2016_NA0003_64_41_20160506_00051.jpg



04/25/2016: Soil and debris dragged across levee from L/S to W/S.

Photo 2 of 2 : SP_2016_NA0003_64_41_20160506_00053.jpg



04/25/2016: Soil and debris dragged across levee from L/S to W/S and pushed into channel.

LM Start	4.26	Rating **	M	Issue No.	5
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.773257 °	39.773969 °
				-121.895618 °	-121.895078 °
DWR ID	DWR_NA0003_01_s _ 2016_5				
Comment Code					
Inspector Comment					
2011 - Two large erosion scallops at the toe from a rotational failure. Deep cracks along the slope indicate the potential for further failures. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: MUD_4-4_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Mud Creek	Right	6.80	04/25/2016 04/25/2016	Keith Millard

LM Start	4.27	Rating **	M	Issue No.	33
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.773398 °	39.773398 °
				-121.895765 °	-121.895765 °
DWR ID	DWR_NA0003_01_f_2015_33				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

Photo 1 of 1 : SP_2016_NA0003_64_33_20160321_00015.jpg



View of the rodent holes along the landside slope.

LM Start	6.08	Rating **	M	Issue No.	36
LM End	6.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.794708 °	39.794708 °
				-121.886616 °	-121.886616 °
DWR ID	DWR_NA0003_01_s_2016_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Blackberry bramble.					

No Photos

LM Start	6.16	Rating **	M	Issue No.	34
LM End	6.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.795428 °	39.795428 °
				-121.885306 °	-121.885306 °
DWR ID	DWR_NA0003_01_s_2016_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Blackberry bramble on landside toe blocking visibility.					

Photo 1 of 1 : SP_2016_NA0003_64_34_20160506_00043.jpg



04/25/2016: Trim vegetation at L/S toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Mud Creek	Left	7.96	04/25/2016 04/25/2016	Keith Millard

LM Start	3.52	Rating **	M	Issue No.	10
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.760582 °	39.760582 °
				-121.910303 °	-121.910303 °
DWR ID	DWR_NA0003_02_f_2015_10				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the landside slope.					

Photo 1 of 1 : SP_2016_NA0003_65_10_20160321_00006.jpg



View of the vehicle erosion along the landside slope.

LM Start	4.42	Rating **	M	Issue No.	11
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.751120 °	39.751120 °
				-121.915977 °	-121.915977 °
DWR ID	DWR_NA0003_02_f_2015_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

Photo 1 of 1 : SP_2016_NA0003_65_11_20160321_00007.jpg



View of the rodent holes along the landside slope.

LM Start	4.55	Rating **	A/W	Issue No.	8
LM End	4.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.749639 °	39.749639 °
				-121.917188 °	-121.917188 °
DWR ID	DWR_NA0003_02_f_2013_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Butte County has been grouting the rodent holes.					

Photo 1 of 2 : SP_2016_NA0003_65_8_20160321_00004.jpg



View of the bait station placed by the rodent hole.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Mud Creek	Left	7.96	04/25/2016 04/25/2016	Keith Millard

LM Start	4.55	Rating **	A/W	Issue No.	8 (cont)	
LM End	4.55	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			39.749639 °		39.749639 °
				-121.917188 °		-121.917188 °
DWR ID	DWR_NA0003_02_f_2013_8					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Butte County has been grouting the rodent holes.						

Photo 2 of 2 : SP_2016_NA0003_65_8_20160321_00005.jpg



View of the bait station by the rodent holes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A Channel Slough	Left	0.26	04/25/2016 04/25/2016	Keith Millard

LM Start	0.11	Rating **	A	Issue No.	3
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.734360 °	39.734360 °
				-121.929461 °	-121.929461 °
DWR ID	DWR_NA0003_02A_s_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
4/25/2016: LMA is keeping grass and weeds off of levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sycamore and Sheep Hollow Creeks	Right	4.05	04/25/2016 04/25/2016	Keith Millard

LM Start	0.02	Rating **	M	Issue No.	12
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.785970 °	39.785970 °
				-121.882797 °	-121.882797 °
DWR ID	DWR_NA0003_03_f_2015_12				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion on both slopes caused by motorcycle traffic.					

Photo 1 of 1 : SP_2016_NA0003_67_12_20160321_00002.jpg



View of the erosion on both slopes caused by motorcycle traffic.

LM Start	0.07	Rating **	M	Issue No.	3
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.786068 °	39.786068 °
				-121.881828 °	-121.881828 °
DWR ID	DWR_NA0003_03_s_2012_3				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion on landside slope caused by motorcycle traffic.					

Photo 1 of 1 : SP_2016_NA0003_67_3_20160321_00001.jpg



View of the erosion caused by motorcycles on the land side slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sycamore and Dry Creeks	Right	2.86	04/25/2016 04/25/2016	Keith Millard

LM Start	1.16	Rating **	M	Issue No.	17
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.777128 °	39.777580 °
				-121.854763 °	-121.855612 °
DWR ID	DWR_NA0003_04_f_2015_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove the trees that are overhanging the levee slope.					

Photo 1 of 1 : SP_2016_NA0003_68_17_20160321_00004.jpg



View of the trees overhanging the levee slope.

LM Start	2.04	Rating **	U	Issue No.	18
LM End	2.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.781669 °	39.782025 °
				-121.869804 °	-121.870252 °
DWR ID	DWR_NA0003_04_s_2016_18				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees and shrubbery obscure visibility on landside toe hinge point.					

Photo 1 of 1 : SP_2016_NA0003_68_18_20160506_00035.jpg



04/25/2016: Trim vegetation on fence at L/S toe.

LM Start	2.33	Rating **	M	Issue No.	19
LM End	2.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.783140 °	39.783460 °
				-121.874431 °	-121.875205 °
DWR ID	DWR_NA0003_04_s_2016_19				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Moderate vegetation obscuring landside toe.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Big Chico Diversion	Left	1.85	04/25/2016 04/25/2016	Keith Millard

LM Start	0.21	Rating **	M	Issue No.	4
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.761957 °	39.761892 °
				-121.792867 °	-121.793705 °
DWR ID	DWR_NA0003_05_f_2014_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the waterside slope.					

Photo 1 of 2 : SP_2016_NA0003_69_4_20160321_00003.jpg



View of the vegetation along the waterside slope.

LM Start	0.21	Rating **	M	Issue No.	4 (cont)
LM End	0.26	Issue Type +	Ma	Location *	WS

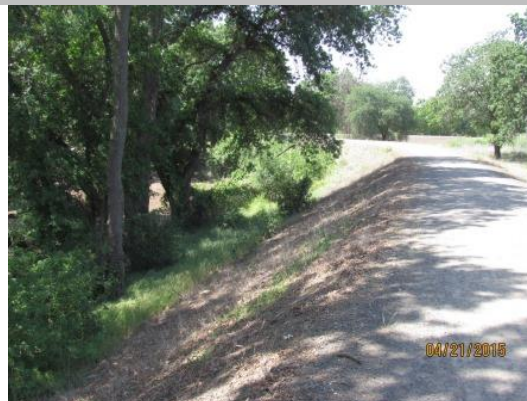
Photo 2 of 2 : SP_2016_NA0003_69_4_20160321_00004.jpg



View of the vegetation along the waterside slope.

LM Start	0.34	Rating **	M	Issue No.	3
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.761633 °	39.761117 °
				-121.795155 °	-121.796464 °
DWR ID	DWR_NA0003_05_f_2013_3				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the landside slope and toe.					

Photo 1 of 2 : SP_2016_NA0003_69_3_20160321_00001.jpg



View of the vegetation along the landside slope and toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
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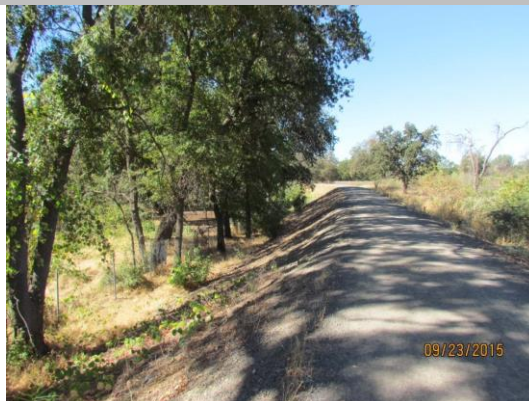
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Butte County Department of Public Works

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Big Chico Diversion	Left	1.85	04/25/2016 04/25/2016	Keith Millard

LM Start	0.34	Rating **	M	Issue No.	3 (cont)	
LM End	0.42	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.761633 °		39.761117 °
				-121.795155 °		-121.796464 °
DWR ID	DWR_NA0003_05_f_2013_3					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the vegetation from the landside slope and toe.						

Photo 2 of 2 : SP_2016_NA0003_69_3_20160321_00002.jpg



View of the vegetation along the landside slope and toe.

LM Start	0.89	Rating **	A/W	Issue No.	6
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.764397 °	39.764397 °
				-121.803335 °	-121.803335 °
DWR ID	DWR_NA0003_05_f_2014_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is not completely blocking the visibility.					

Photo 1 of 1 : SP_2016_NA0003_69_6_20160321_00005.jpg



View of the elderberry along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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